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# PATENT ABSTRACTS OF JAPAN

(11)Publication number : 60-007851  
(43)Date of publication of application : 16.01.1985

(51)Int.Cl.

G11B 20/10

(21)Application number : 58-116781

(71)Applicant : SONY CORP

(22)Date of filing : 28.06.1983

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## (54) RECORDING DEVICE OF DIGITAL INFORMATION SIGNAL

### (57)Abstract

PURPOSE: To make it unnecessary to change the speed of a tape the turning speed of a drum and an analog circuit even if sampling frequencies are different by selecting a frame frequency satisfying a specific condition.

CONSTITUTION: A digital information recording device records digital signals having different sampling frequencies  $f_{s1}$  and  $f_{s2}$ . When it is defined that  $n_1$  and  $n_2$  are the numbers of data words, the field frequency  $F$  is selected so as to satisfy the equation. The operation frequency of each part is fixed by using the frequency  $F$  as a reference. If the sampling frequency is changed, the frequency  $F$  is fixed and the number of data words included in a  $1/F$  period is set to  $n$ . Thus, it can be made unnecessary to change the tape speed, the turning speed of the drum and the analog circuit even if the sampling frequency is different.

$$\left( \frac{n_1}{f_{s1}} \div \frac{n_2}{f_{s2}} \right) = \frac{1}{F}$$

## LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

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